

ORDER FOR SUPPLIES OR SERVICES										PAGE 1 OF 21		
1 CONTRACT/PURCH ORDER/ AGREEMENT NO N65540-15-D-0009			2 DELIVERY ORDER/ CALL NO 0006		3 DATE OF ORDER/ CALL (YYYYMMDD) 2016 Jun 02		4 REQ / PURCH REQUEST NO 1300571404		5 PRIORITY			
6 ISSUED BY CODE N64498 NAVAL SURFACE WARFARE CENTER PHILA (b) (6) 5001 SOUTH BROAD STREET PHILADELPHIA PA 19112			7 ADMINISTERED BY (if other than 6) CODE S5111A DCMA HAMPTON 2000 ENTERPRISE PARKWAY HAMPTON VA 23666				8 DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)					
9 CONTRACTOR CODE 1SWQ1 EPSILON SYSTEMS SOLUTIONS, INC. NAME BOB KAUTTER AND 605 COMMERCE ST ADDRESS PORTSMOUTH VA 23707-2002			FACILITY		10 DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11 MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		12 DISCOUNT TERMS			
					13 MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15							
14 SHIP TO CODE N64498 NAVAL SURFACE WARFARE CENTER PHILA (b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE, (b) (6) PHILADELPHIA PA 19112-5051			15 PAYMENT WILL BE MADE BY CODE HQ0338 DFAS COLUMBUS CENTER, SOUTH ENTITLEMENT O P.O. BOX 182264 COLUMBUS OH 43218-2264				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.					
16 TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract								
		PURCHASE <input type="checkbox"/>		Reference your quote dated Furnish the following on terms specified herein REF:								
ACCEPTANCE THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME												
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)			
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:												
17 ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule												
18 ITEM NO		19 SCHEDULE OF SUPPLIES/ SERVICES			20 QUANTITY ORDERED/ ACCEPTED*		21 UNIT		22 UNIT PRICE		23 AMOUNT	
		SEE SCHEDULE										
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: (b) (6) EMAIL: (b) (6) BY: HEATHER L. RHODES				(b) (6) <i>Heather Rhoads</i> CONTRACTING / ORDERING OFFICER		25 TOTAL \$1,184,507.00		
26 DIFFERENCES												
27a QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED												
b SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c DATE (YYYYMMDD)		d PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
e MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28 SHIP NO		29 DO VOUCHER NO		30 INITIALS		
f TELEPHONE NUMBER			g E-MAIL ADDRESS			<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32 PAID BY		33 AMOUNT VERIFIED CORRECT FOR		
36. I certify this account is correct and proper for payment.						31 PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34 CHECK NUMBER		
a DATE (YYYYMMDD)		b SIGNATURE AND TITLE OF CERTIFYING OFFICER								35 BILL OF LADING NO		
37 RECEIVED AT		38 RECEIVED BY		39 DATE RECEIVED (YYYYMMDD)		40 TOTAL CONTAINERS		41 S/R ACCOUNT NO		42 S/R VOUCHER NO		

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Engineering and Technical Services CPFF FOB: Destination				(b) (4)
ESTIMATED COST FIXED FEE					
TOTAL EST COST + FEE					(b)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AA	Holding SLIN for CLIN 0002 CPFF This priced SLIN is a holding SLIN for administrative purposes. This SLIN will be reduced with every additional incremental funding modification. FOB: Destination	1	Lot		(b) (4)
ESTIMATED COST FIXED FEE					
TOTAL EST COST + FEE					(b) (4)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AB	Funding for CLIN 0002 CPFF Funding Document - N3225316RC12687/AA. 10 U.S.C. 2410(a) is hereby invoked. Funding available for performance through 06/01/2017. FOB: Destination PURCHASE REQUEST NUMBER: 1300571404	1	Lot		(b) (4)
ESTIMATED COST FIXED FEE					
TOTAL EST COST + FEE					(b) (4)
ACRN AA CIN: 130057140400001					

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Support Costs COST FOB: Destination				(b) (4)

ESTIMATED COST

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004AA	Holding SLIN for CLIN 0004 COST This priced SLIN is a holding SLIN for administrative purposes. This SLIN will be reduced with every additional incremental funding modification. FOB: Destination	1	Lot		(b) (4)

ESTIMATED COST

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004AB	Funding for CLIN 0004 COST Funding Document - N3225316RC12687/AA. 10 U.S.C. 2410(a) is hereby invoked. Funding available for performance through 06/01/2017. FOB: Destination PURCHASE REQUEST NUMBER: 1300571404	1	Lot		(b) (4)

ESTIMATED COST

ACRN AA
CIN: 130057140400002

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	Technical Data CDRLs FOB: Destination FFP				(b) (4)

NET AMT

FUNDING & LOE

This order has hereby been awarded and funded in the amount of (b) (4) . As a result, the total amount of funding obligated and available for payment under this order is (b) (4) . It is estimated that the funding under this order will cover the cost of performance through 30 September 2016. In accordance with contract clause 52.232-22, Limitation of Funds, the Government is not obligated to reimburse the contractor for any costs incurred in excess of (b) (4) unless additional funds are made available and obligated under this order in a subsequent modification. The total unfunded balance remaining is (b) (4) based on the total order value.

LABOR CATEGORY	Epsilon
	ST/OT
Program Manager	{
Sr. Engineer	{
QA Specialist	-
Systems/Program Analyst	-
Machinist	(b) (4)
Sr. Engineering Tech	-
Marine Equipment Mechanic	-
Site Foreman	(b)
Planner/Estimator	-
QA Tech	(b)
Marine Electrician	(b)
Painter/Sandblaster	-
Logistician	{
Clerk/Typist	{
Prod Manager	-
Prod Supervisor	-
Program Asst	-
Mech Tech	-
Pipe Fitter	-
P&E	-
Total Hours	3,828/634

Section C - Descriptions and Specifications

STATEMENT OF WORK

STATEMENT OF WORK UNIVERSAL MODULAR MAST HM&E MODERNIZATION

INTRODUCTION

This Delivery Order will task the AIT contractor to accomplish tasking in support of Naval Surface Warfare Center Philadelphia Division (NSWCPD) Code 435. This Modernization Program tasks include:

1. HM&E Modernization of (b) (2) systems
2. HM&E Modernization of (b) (2) systems

The individual task scope, references and requirements are detailed separately in this document.

Task #1: (b) (2) (SSN (b)) UNIVERSAL MODULAR MAST INSPECTION, MODERNIZATION, TESTING AND CERTIFICATION

1.1 BACKGROUND

NAVSEA (b) (2) Class Platform Office and Submarine Directorate, in support of the US Navy's VIRGINIA Class Submarine Modernization Program, requires system tests, material assessments, modernization and re-certification of Universal Modular Mast (UMM) systems installed on (b) (2) (SSN (b)) in Pearl Harbor HI. Work will support the boat's overhaul/modernization period scheduled in September of 2016.

1.2 SCOPE

- a) Accomplish system operational testing, material assessment, modernization and re-certification of eight (8) Universal Modular Mast Systems
- b) Location of Work will be off ship at a local site in Pearl Harbor, HI
- c) Identification: Eight (8) UMMs as identified in Section 1.4.1
- d) Security Classification of Equipment, Components, Spaces and Documents: Work and the location for its execution are unclassified

1.3 REFERENCES

- 1.3.1 NSWCPD UMM Contractor Support Facilities Document
- 1.3.2 (b) (2) , Rev 4-Technical Manual for UMMs on SSN Class Submarines
- 1.3.3 (b) (2) UMM Receipt Inspection Record
- 1.3.4 (b) (2) Inspect and Repair Universal Modular Mast
- 1.3.5 Inspect and Repair HDR, IEM, PMP UMM Hydraulic Hoist Cylinder
- 1.3.6 Inspect and Repair MFM UMM Hydraulic Hoist Cylinder
- 1.3.7 Specification for Blast Restoration of UMM
- 1.3.8 NSWCPD VA Class UMM Government Furnished Material (GFM) List (See Attachment 1)
- 1.3.9 UMM Contractor Furnished Material (CFM) List (Attachment 2)
- 1.3.10 FC-IEM-VA-3-001, Virginia Class IEM/MCM C1 Cable Clamp Back-Fit Field Change
- 1.3.11 (b) (2) , Virginia Class HDR Dip Loop Cable UMM Modifications
- 1.3.12 (b) (2) , Common Electrical Hull Penetrator Dip Loop UMM Photonics Mast

1.4 REQUIREMENTS

- 1.4.1 Contractor shall support modernization of eight (8) VIRGINIA Class (b) (2) (SSN (b) Universal Modular Masts (UMMs) in a facility that meets the requirements established in reference 1.3.1. The eight (8) UMMs consist of two (2) Photonics (PMP) UMMs, two (2) High Data Rate (HDR) Antenna UMMs, two (2) OE-538 Multifunction (MFM) Antenna UMMs, one (1) Integrated Electronic Mast (IEM) UMM and one (1) Mission Configurable Mast (MCM) UMM. UMM's will be supplied as GFM with all primary internal components, including but not limited to, fairing, hydraulic cylinder, internal bearing assembly, closure door actuating mechanism, 2ML indication components and all mechanical wire rope erecting/retracting components installed. Basic UMM handling and support requirements are provided in reference 1.3.2.
- 1.4.2 Upon receipt, the contractor shall perform a receipt inspection in accordance with reference 1.3.3. Upon completion of receipt inspections a report of findings shall be provided to the NSWCPD SME POC. Contractor shall supply receipt reports on individual UMMs as they are completed in lieu of forwarding all eight test reports in a single correspondence.
- 1.4.3 The contractor shall fully disassemble each UMM and inspect all components in accordance with requirements and inspection criteria identified in reference 1.3.4. Inspection reports shall be forwarded to the NSWCPD Technical POC as they are completed.
- 1.4.4 The contractor shall replace all mandatory replacement parts IAW modernization requirements. Replacement parts will be provided by the government as specified in reference 1.3.8 unless otherwise arranged with the contractor (See attachment 1).
- 1.4.5 The contractor shall disassemble, inspect, overhaul and reassembly the hydraulic hoist cylinders of each unit in IAW references 1.3.1, 1.3.5, and 1.3.6. Inspection reports shall be forwarded to the NSWCPD SME as they are completed.
- 1.4.6 Contractor shall prepare each UMM module for paint removal and application of new paint scheme in accordance with requirements established in references 1.3.7. Quality Assurance inspections and reporting shall be IAW reference requirements.
- 1.4.7 The contractor shall reassemble units IAW reference 1.3.1 and perform final testing IAW reference 1.3.4. Inspection reports shall be forwarded to the NSWCPD SME POC as they are completed.
- 1.4.8 The government shall supply replacement UMM parts IAW with reference 1.3.8 in quantities specified within the reference. All other parts required for UMM overhauls shall be supplied as CFM as identified in reference 1.3.9 (See attachments 1 and 2).
- 1.4.9 The contractor shall execute the requirements of VA Class Field Change (FC-IEM-VA-3-001) in accordance with reference 1.3.10. All hardware required for the change shall be provided by the government in accordance with the Field Change.
- 1.4.10 The contractor shall execute the requirements of VA Class Field Change (FC-HDR-VA-3-001) in accordance with reference 1.3.11. All hardware required for the change shall be provided by the government in accordance with the Field Change.
- 1.4.11 The contractor shall implement the Engineering Change Instruction (ECI UMM-0004) in accordance with reference 1.3.12. All hardware required for the change shall be provided by the government in accordance with the ECI.
- 1.4.12 Delivery schedule for return of the eight modernized UMMs is as follows:
- a) Eight (8) completed UMMs delivered to onsite NSWCPD POC NLT 90 days after receipt of UMMs. Return shipping to Pearl Harbor Naval Shipyard and IMF is responsibility of government.

- 1.4.13 The contractor shall provide machining, welding, cutting, grinding, etc services as necessary to make minor repairs of UMM components if deemed necessary during material assessment.
- 1.4.14 The government will deliver UMMs and other GFM to the contractor's facility. The government will provide for returning UMMs to Pearl Harbor Naval Shipyard. The contractor shall provide return shipping of all other GFM (special tools, spare parts, test equipment) to NSWPD.

Task #2: (b) (2) (SSGN (b)) UNIVERSAL MODULAR MAST INSPECTION, MODERNIZATION, TESTING AND CERTIFICATION

2.1 BACKGROUND

NAVSEA SSGN (b) Class Platform Office and Submarine Directorate, in support of the US Navy's SSGN Class Submarine Modernization Program, requires system tests, material assessments, modernization and re-certification of Universal Modular Mast (UMM) systems installed on (b) (2) (SSGN (b)). Work will support the boat's overhaul/modernization period scheduled in April of 2017.

2.2 SCOPE

- a) Accomplish system operational testing, material assessment, modernization and re-certification of five (5) Universal Modular Mast Systems
- b) Location of Work will be off ship at a contractor facility in the contiguous United States
- c) Identification: Five (5) UMMs as identified in Section 2.4.1
- d) Security Classification of Equipment, Components, Spaces and Documents: Work and the location for its execution are unclassified

2.3 REFERENCES

- 2.3.1 NSWCPD UMM Contractor Support Facilities Document
- 2.3.2 S9422-AW-MMI-010-Technical Manual for UMMs on SSGN Class Submarines
- 2.3.3 (b) (2) UMM Receipt Inspection Record
- 2.3.4 961-15-084-003-UMM Test and Inspection Procedure for SSGN Class
- 2.3.5 NAVSEA 8500156-Specification for Blast Restoration of UMM
- 2.3.6 NSWCPD SSGN Class UMM Government Furnished Material (GFM) List
- 2.3.7 UMM Contractor Furnished Material (CFM) List
- 2.3.8 A&I T-0208, SSGN UMM HDR Dip Loop Cable Modification

2.4 REQUIREMENTS

- 2.4.1 Contractor shall support modernization of five (5) SSGN Class (b) (2) (SSGN (b)) Universal Modular Masts (UMMs) in a facility that meets the requirements established in reference 2.3.1. The five (5) UMMs consist of two (2) High Data Rate (HDR) Antenna UMMs, two (2) OE-538 Multifunction (MFM) Antenna UMMs, and one (1) Photonics Mast Variant (PMV) UMM. UMM's will be supplied as GFM with all primary internal components, including but not limited to, fairing, hydraulic cylinder, internal bearing assembly, closure door actuating mechanism, 2ML indication components and all mechanical wire rope erecting/retracting components installed. Basic UMM handling and support requirements are provided in reference 2.3.2.
- 2.4.2 Upon receipt, the contractor shall perform a receipt inspection in accordance with reference 2.3.3. Upon completion of receipt inspections a report of findings shall be provided to the NSWCPD SME POC.

Contractor shall supply receipt reports on individual UMMs as they are completed in lieu of forwarding all eight test reports in a single correspondence.

- 2.4.3 The contractor shall fully disassemble each UMM and inspect all components in accordance with requirements and inspection criteria identified in reference 2.3.4. Inspection reports shall be forwarded to the NSWCPD Technical POC as they are completed.
- 2.4.4 The contractor shall replace all mandatory replacement parts IAW modernization requirements. Replacement parts will be provided by the government as specified in reference 2.3.6 unless otherwise arranged with the contractor (See attachment 3).
- 2.4.5 The contractor shall disassemble, inspect, overhaul and reassembly the hydraulic hoist cylinders of each unit in IAW references 2.3.2 and 2.3.4. Inspection reports shall be forwarded to the NSWCPD SME as they are completed.
- 2.4.6 Contractor shall prepare each UMM module for paint removal and application of new paint scheme in accordance with requirements established in references 2.3.5. Quality Assurance inspections and reporting shall be IAW reference requirements.
- 2.4.7 The contractor shall reassemble units IAW reference 2.3.2 and perform final testing IAW reference 2.3.4. Inspection reports shall be forwarded to the NSWCPD SME POC as they are completed.
- 2.4.8 The government shall supply replacement UMM parts IAW with reference 2.3.6 in quantities specified within the reference. All other parts required for UMM overhauls shall be supplied as CFM as identified in reference 2.3.7 (See attachments 3 and 4).
- 2.4.9 The contractor shall implement the Alteration and Improvement (A&I T-0208) in accordance with reference 2.3.8. All hardware required for the change shall be provided by the government in accordance with the A&I.
- 2.4.10 Delivery schedule for return of the eight modernized UMMs is as follows:
 - a) Five (5) completed UMMs delivered to onsite NSWCPD POC NLT 80 days after receipt of UMMs. Return shipping to Puget Sound Naval Shipyard and IMF is responsibility of the contractor.
- 2.4.11 The contractor shall provide machining, welding, cutting, grinding, etc services as necessary to make minor repairs of UMM components if deemed necessary during material assessment.
- 2.4.12 The government will deliver UMMs and other GFM to the contractor's facility. The contractor shall provide for returning UMMs to Puget Sound Naval Shipyard and return shipping of all other GFM (special tools, spare parts, and test equipment) to NSWPD.

3.0 DELIVERABLES/SCHEDULE

3.1 For tasks 1 and 2 the following shall be provided:

- 3.1.1 The contractor's POA&M shall be revised on-site weekly and a copy provided to NSWCPD personnel. Updates shall be submitted daily to NAVSSES personnel tracking progress. **(CDRL A003)**
- 3.1.2 A Quality Assurance (QA) Work Book shall be assembled by the Contractor and maintained on-site. This QA book shall be delivered to NSWCPD within thirty (30) working days prior to start of availability for review and two (2) weeks after completion of availability **(CDRL A004)**.
- 3.1.3 A Bi-Weekly Financial Status Report shall be assembled by the contractor and submitted to the SME/TPOC no later than five business days after the end of the reporting period **(CDRL A002)**.
- 3.1.4 A Weekly Physical Progress Report shall be assembled by the NSWCPD AIT and submitted to the SME/TPOC no later than close of business the last day of the reporting period **(CDRL A007)**.

3.2 The NSWCPD COR shall be copied or notified of all deliverables via e-mail.

4.0 GOVERNMENT FURNISHED MATERIAL (GFM)

- 4.1 Task 1 GFM: See Attachment 1
- 4.2 Task 2 GFM: See Attachment 3

5.0 GOVERNMENT FURNISHED INFORMATION (GFI)

5.1 NWCPD will provide information as identified in each Reference section of this document

6.0 CONTRACTOR FURNISHED MATERIAL (CFM)

- 6.1 Task 1 CFM: See Attachment 2
- 6.2 Task 2 CFM: See Attachment 4

7.0 CLASSIFIED MATERIAL

7.1 None

8.0 PERIOD OR PERFORMANCE

8.1 From delivery order award to 30 September 2017.

9.0 PLACES OF PERFORMANCE

- 9.1 Task 1 shall take place at a contractor facility in Pearl Harbor, HI in order to meet the availability schedule of **(b) (2)**
- 9.2 Tasks 2 and 3 shall take place at a contractor's facility in the contiguous US

10.0 **OVERTIME**

10.1 Overtime is requested for the duration of this award as required in order to complete the requirements within the period of the ship's availability.

11.0 **TRAVEL**

11.1 Travel to Honolulu , HI and return is required for Task 1 of this order as follows:

<u>Travel to Honolulu, HI</u>	
People	4
Days	95
Trips	1

12.0 **CONTRACTING OFFICER'S REPRESENTATIVE (COR)**

12.1 The COR for this contract is (b) (6) NSWCPD Code (b) (6)

13.0 **SUBJECT MATTER EXPERT**

13.1 The SME/TPOC for this Delivery Order is (b) (6) NSWCPD Code (b) (6)

Attachment 1

TASK 1 GOVERNMENT FURNISHED MATERIAL			
GFM for Requirements 1.4.1 thru 1.4.8			
DESCRIPTION	QTY	PART NO	SENT FROM/RETURN TO
HDR1 UMM	1	7377702	PHNSY
HDR2 UMM	1	7377711	PHNSY
IEM1 UMM	1	7377675	PHNSY
IEM2/MCM UMM	1	7377684	PHNSY
PMP1 UMM	1	7225780	PHNSY
PMP2 UMM	1	7225781	PHNSY
MFM1 UMM	1	7377690	PHNSY
MFM2 UMM	1	7377697	PHNSY
Foundation	2	8283254	NSWCPD
Adapter	2	7225788	NSWCPD
IBA Safety Support	2	7377730	NSWCPD
Safety Block Pin	2	7377735	NSWCPD
Cylinder Extracting Screws	3	7377750	NSWCPD
Special Face Spanner Wrench	1	7377879	NSWCPD
IBA Lifting Tool	1	7377880	NSWCPD
Mast Fairing Lifting Tool	1	7377883	NSWCPD
Spacer Ring	1	7377889	NSWCPD
Hoist Cylinder Lifting Tool	1	7377890	NSWCPD
Modified Swaging Tool	1	N/A	NSWCPD
Hoist Cylinder Adapter	2	7225788	NSWCPD
2ML Test Box	1	N/A	NSWCPD
Wrench	1	8417938	NSWCPD
Upper Bushing Applicator	1	8417939	NSWCPD
Upper Bushing Compressor	1	8417940	NSWCPD
Compressor Cap	1	8417941	NSWCPD
Piston O-Ring Compressor	1	8417942	NSWCPD

Attachment 1

TASK 1 GOVERNMENT FURNISHED MATERIAL (cont'd)			
GFM for requirements 1.4.1 thru 1.4.8 (cont'd)			
Piston O-Ring Applicator	1	8417943	NSWCPD
Lower Bushing Tool	1	8417945	NSWCPD
Lower Bushing Standoff	2	8417946	NSWCPD
MFM Applicator Standoff	1	8418021	NSWCPD
Cylinder Pressurization Tool w/Screws	1	8468737	NSWCPD
Mast Test Weight Assmly Crate	1	SK7692	NSWCPD
UMM Mast Test Weight Assembly	1	SK7556	NSWCPD
T-Handle Box Wrench	1	7377886	NSWCPD
All-thread Rod for cylinder tools	N/A	N/A	NSWCPD
GFM for Requirement 1.4.9 (FC-HDR-VA-3-001)			
Clamp	2	7377860	NSWCPD
GFM for Requirement 1.4.10 (FC-IEM-VA-3-001)			
Roller	1	8603748	NSWCPD
Roller	1	8603749	NSWCPD
Roller	1	8603750	NSWCPD
C2 Clamp	1	8603751	NSWCPD
C3 Clamp	1	8603752	NSWCPD
C4 Clamp	1	8603753	NSWCPD
C5 Clamp	2	8603754	NSWCPD
C6 Clamp	1	8603755	NSWCPD
GFM for Requirement 1.4.11 (ECI UMM-0004)			
Antifriction Thrust Bearing	16	7377502	NSWCPD
Dowel	8	7377503	NSWCPD
Nut	8	7377546	NSWCPD
Screw	8	7377549	NSWCPD
Support	2	7377603	NSWCPD
Clamp	4	7377604	NSWCPD

Attachment 1

TASK 1 GOVERNMENT FURNISHED MATERIAL (cont'd)			
GFM for Requirement 1.4.11 (cont'd)			
Clamp	4	7377605	NSWCPD
Clamp	12	7377606	NSWCPD
Plate	2	7377607	NSWCPD
Screw	8	7377613	NSWCPD
Screw	24	7377614	NSWCPD
Plate	2	8604029	NSWCPD
Clamp	4	8604031	NSWCPD
Spring	4	8604032	NSWCPD
Idler	2	8604033	NSWCPD
Support	1	8604034	NSWCPD
Support	1	8604035	NSWCPD
Screw	8	8604043	NSWCPD
Washer	16	8604044	NSWCPD
Nut	8	8604045	NSWCPD
Support	1	8604047	NSWCPD
Support	1	8604048	NSWCPD
Roller	8	8604055	NSWCPD

Attachment 2

TASK 1 CONTRACTOR FURNISHED MATERIAL				
CFM for all Requirements				
DESCRIPTION	MANUFACTURER P/N	DETAILS	QTY	UNIT
Adapter Fastener	Crosby (1016887) Crosby (1016920)	SHCS ½”-13 x 5”LG SS	6	EA
Nut/Washers		1/3”-13 SS	6	EA
Cylinder Fastener		SHCS 7/8”-9 x 9”LG Grade 8 or better	16	EA
Nut/Washers		7/8”-9 Grade 8 or better	16	EA
Guide Trunk Fasteners		SHCS 1”-8 x 6”LG SS	8	EA
Nut/Washers		1”-8 SS	8	EA
Swivel Hoist Ring		5/16”-18 x 1.50”	2	EA
Swivel Hoist Ring		5/8”-11 x 2.00”	4	EA
Lock Wire		.032” Monel, 326 ft roll	1	EA
Safe-T-Cable (Optional)		.032” Inconel		EA
Thread Lubricant		Molykote P-37, 453 g Can	1	EA
Thread Locker		Loctite 242, 50 mL bottle	1	EA
Epoxy Metal Repair Compound		Per MIL-PRF-24176C Type I, 1 Pint	4	EA
Hydraulic Fluid for Pump		Technolube 2075-TH Per MIL-PRF-17672D, 55 gal drum	1	EA
Label Plates		Per SOW	2	EA
Drive Screws		Per SOW	8	EA
Paint		MIL-DTL-24441 (Primer), 10 Gallon Kit	3	EA
Paint		MIL-DTL-24441 (Second Coat), 10 Gallon Kit	3	EA
Paint		MIL-DTL-24441 (Grey Top Coat), 10 Gallon Kit	3	EA
Blast Medium		Garnet, Medium Grit, 50 LB bag	40	EA

Attachment 3

TASK 2 GOVERNMENT FURNISHED MATERIAL			
GFM for Requirements 2.4.1 thru 2.4.8			
DESCRIPTION	QTY	PART NO	SENT FROM/RETURN TO
HDR1 UMM	1	7377906	PSNS
HDR2 UMM	1	7377909	PSNS
MFM1 UMM	1	7377896	PSNS
MFM2 UMM	1	7377901	PSNS
PMV UMM	1	7377936	PSNS
Foundation	1	8283254	NSWCPD
Foundation (PMV)	1	SK7225	NSWCPD
Adapter	1	7225788	NSWCPD
Adapter (PMV)	1	7377989	NSWCPD
IBA Safety Support	2	7377730	NSWCPD
Safety Block Pin	2	7377735	NSWCPD
Cylinder Extracting Screws	3	7377750	NSWCPD
Special Face Spanner Wrench	1	7377879	NSWCPD
IBA Lifting Tool	1	7377880	NSWCPD
Mast Fairing Lifting Tool	1	7377883	NSWCPD
Spacer Ring	1	7377889	NSWCPD
Hoist Cylinder Lifting Tool	1	7377890	NSWCPD
Modified Swaging Tool	1	N/A	NSWCPD
Hoist Cylinder Adapter	2	7225788	NSWCPD
2ML Test Box	1	N/A	NSWCPD
Wrench	1	8417938	NSWCPD
Upper Bushing Applicator	1	8417939	NSWCPD
Upper Bushing Compressor	1	8417940	NSWCPD
Compressor Cap	1	8417941	NSWCPD
Piston O-Ring Compressor	1	8417942	NSWCPD

Attachment 3

TASK 2 GOVERNMENT FURNISHED MATERIAL (cont'd)			
GFM for requirements 2.4.1 thru 2.4.8 (cont'd)			
Piston O-Ring Applicator	1	8417943	NSWCPD
Lower Bushing Tool	1	8417945	NSWCPD
Lower Bushing Standoff	2	8417946	NSWCPD
MFM Applicator Standoff	1	8418021	NSWCPD
Cylinder Pressurization Tool w/Screws	1	8468737	NSWCPD
Mast Test Weight Assmly Crate	1	SK7692	NSWCPD
UMM Mast Test Weight Assembly	1	SK7556	NSWCPD
T-Handle Box Wrench	1	7377886	NSWCPD
All-thread Rod for cylinder tools	N/A	N/A	NSWCPD
GFM for Requirement 2.4.9 (A&I T-0208)			
Roller	1	8603748	NSWCPD
Roller	1	8603749	NSWCPD
Roller	1	8603750	NSWCPD
C2 Clamp	1	8603751	NSWCPD
C3 Clamp	1	8603752	NSWCPD
C4 Clamp	1	8603753	NSWCPD
C5 Clamp	2	8603754	NSWCPD
C6 Clamp	1	8603755	NSWCPD

TASK 2 CONTRACTOR FURNISHED MATERIAL				
CFM for all Requirements				
DESCRIPTION	MANUFACTURER P/N	DETAILS	QTY	UNIT
Adapter Fastener	Crosby (1016887) Crosby (1016920)	SHCS ½"-13 x 5"LG SS	6	EA
Nut/Washers		1/3"-13 SS	6	EA
Cylinder Fastener		SHCS 7/8"-9 x 9"LG Grade 8 or better	16	EA
Nut/Washers		7/8"-9 Grade 8 or better	16	EA
Guide Trunk Fasteners		SHCS 1"-8 x 6"LG SS	8	EA
Nut/Washers		1"-8 SS	8	EA
Swivel Hoist Ring		5/16"-18 x 1.50"	2	EA
Swivel Hoist Ring		5/8"-11 x 2.00"	4	EA
Lock Wire		.032" Monel, 326 ft roll	1	EA
Safe-T-Cable (Optional)		.032" Inconel		EA
Thread Lubricant		Molykote P-37, 453 g Can	1	EA
Thread Locker		Loctite 242, 50 mL bottle	1	EA
Epoxy Metal Repair Compound		Per MIL-PRF-24176C Type I, 1 Pint	4	EA
Hydraulic Fluid for Pump		Technolube 2075-TH Per MIL-PRF-17672D, 55 gal drum	1	EA
Label Plates		Per SOW	2	EA
Drive Screws		Per SOW	8	EA
Paint		MIL-DTL-24441 (Primer), 10 Gallon Kit	2	EA
Paint		MIL-DTL-24441 (Second Coat), 10 Gallon Kit	2	EA
Paint		MIL-DTL-24441 (Grey Top Coat), 10 Gallon Kit	2	EA
Blast Medium		Garnet, Medium Grit, 50 LB bag	20	EA

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0002	Destination	Government	Destination	Government
0002AA	Destination	Government	Destination	Government
0002AB	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0004AA	Destination	Government	Destination	Government
0004AB	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
0002	N/A	N/A	N/A	N/A
0002AA	POP 02-JUN-2016 TO 30-SEP-2017	N/A	NAVAL SURFACE WARFARE CENTER PHILA (b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE, (b) (6) PHILADELPHIA PA 19112-5051 (b) (6) FOB: Destination	N64498
0002AB	POP 02-JUN-2016 TO 30-SEP-2017	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	N64498
0004	N/A	N/A	N/A	N/A
0004AA	POP 02-JUN-2016 TO 30-SEP-2017	N/A	NAVAL SURFACE WARFARE CENTER PHILA (b) (6) NSWC PHILADELPHIA DIVISION NSLC DETACHMENT 1601 LANGLEY AVE, (b) (6) PHILADELPHIA PA 19112-5051 (b) (6) FOB: Destination	N64498
0004AB	POP 02-JUN-2016 TO 30-SEP-2017	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	N64498
0005	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 1761804 70BA 257 32253 0 045924 2D C12687

COST CODE: 3225360K9UAQ

AMOUNT: (b) (4)

CIN 130057140400001: (b) (4)

CIN 130057140400002:

Section J - List of Documents, Exhibits and Other Attachments

CDRLS

The following CDRLs will be uploaded into EDA as follows:

- 1) A002 – Monthly Financial Report
- 2) A003 – POA&M
- 3) A004 – Quality Assurance Workbook
- 4) A007 – Physical Progress Report